

or the like which can be freely removed from the digital signal recording and reproducing apparatus 100.

In the case where the digital signal recording and reproducing apparatus 100 reproduces the digital broadcast signal, the digital broadcast signal recorded on the recording medium 107 is first read out by the reproduction signal processing circuit 106. Subsequently, the packet for the digital broadcast signal in which the video data and audio data which are reproduced have been stored is selected from the digital broadcast signal read out by the selecting circuit 104. Next, in case of encrypting the digital broadcast signal and outputting it from the digital interface, an encrypting process is executed by the encrypting circuit 103. After that, the interface circuit 101 stores the packet for the digital broadcast signal into the packet for the digital interface and outputs it from a digital output terminal 110. The above processes are executed under the control by the control circuit 108. As mentioned above, the recording medium 107 can be also constructed so that it can be freely removed from the digital signal recording and reproducing apparatus 100. The digital broadcast signal recorded on the recording medium 107 can be also the signal recorded by another recording apparatus.

The digital broadcast signal is inputted from a digital input terminal 109 to the digital signal recording and reproducing apparatus 100. A digital

signal output apparatus 200 such as a digital broadcast receiver or the like generates the digital broadcast signal which is inputted to the digital signal recording and reproducing apparatus 100. The digital  
5 signal output apparatus 200 outputs the digital broadcast signal obtained by demodulating a reception signal received through an antenna from a digital output terminal 202. As shown in Fig. 1, the digital signal output apparatus 200 can also convert the  
10 digital broadcast signal into an analog signal and output it from an analog output terminal 203 to a monitoring apparatus 600.

The digital broadcast signal is inputted from the digital signal recording and reproducing apparatus  
15 100 through the digital output terminal 110. The digital broadcast signal outputted from the digital signal recording and reproducing apparatus 100 is inputted from a digital input terminal 301 to a digital signal input apparatus 300 such as a digital TV or the  
20 like and, for example, displayed on a screen.

Fig. 2 shows an internal constructional diagram of the digital signal output apparatus 200. The digital signal output apparatus 200 comprises: a demodulating circuit 204; a selecting circuit 205; a  
25 decoding circuit 206; an encrypting circuit 207; an interface circuit 208; and a control circuit 209. The reception signal received by the digital signal output apparatus 200 through the antenna is inputted to the

demodulating circuit 204 from an input terminal 201. The demodulating circuit 204 demodulates a radio wave of a frequency which is received, demodulates the digital broadcast signal, and inputs it to the

5 selecting circuit 205. The selecting circuit 205 selects the packet for the digital broadcast signal in which the video data and audio data which are outputted have been stored. The selected packet for the digital broadcast signal is inputted to the encrypting circuit

10 207 and subjected to an encrypting process for protecting the data which is outputted from the digital interface. Subsequently, it is stored into the packet for the digital interface by the interface circuit 208 and outputted from the digital output terminal 202.

15 The output of the selecting circuit 205 is inputted to the decoding circuit 206, converted into an analog video signal and an analog audio signal, and outputted as analog signals from the analog output terminal 203. The above processes which are executed by the digital

20 signal output apparatus 200 are controlled by the control circuit 209. The digital signal output apparatus 200 is not limited to the apparatus for outputting the received digital broadcast signal but can be also replaced with an apparatus for outputting

25 the signal reproduced from the recording medium.

Fig. 3 shows an internal constructional diagram of the digital signal input apparatus 300. The digital signal input apparatus 300 comprises: an